

Application No.: 09/674,167
Amendment under 37 CFR 1.111
Reply to Notice of Non-Compliant Amendment dated July 6, 2004
July 21, 2004

REMARKS

By this amendment, claims 28, 29, 36 and 38 have been amended and the status identifiers for some of the claims have been changed from "previously added" to --previously presented-- as requested. Currently, claims 28-41 are pending in the application.

The specification was objected because page 30 of the specification did not have a top margin of at least 2.0 cm (3/4 inch), as required by 37 CFR 1.52(a)(1)(ii). By this amendment, applicants respectfully resubmit a copy of original page 30 from the specification attached hereto. This page includes a top margin of at least 2.0 cm (3/4 inch) and shows the reactant and the product as requested by the Examiner. It is respectfully submitted that this objection has been overcome and should be withdrawn.

Claim 29 was rejected under 35 USC 112, first paragraph, as failing to comply with the written description requirement.

The Examiner stated that the recitation that G can be "N-ethyl-D-mannosamine" (claim 29, line 6) does not appear to be supported by the disclosure originally filed, and hence

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constitutes new matter. The Examiner also stated that applicants should note that the remaining members of the recited Markush group are supported by page 16, lines 5-9, of the specification and that "N-ethyl-D-arabitylamine" is given as the last member of this group. By this amendment, claim 29 has been amended to change "N-ethyl-D-mannosamine" to -- N-ethyl-D-arabitylamine -- as suggested by the Examiner. It is respectfully submitted that this rejection should be withdrawn in view of this amendment.

Claims 28-41 were rejected under 35 USC 112, second paragraph, as being indefinite. The Examiner stated that the term "at least one of a natural fiber and a regenerated fiber containing at least one chelate-forming functional group" (claim 28, lines 2-3; claim 36, lines 4-6) was indefinite as to the scope of this claim, since it is not clear whether the recited chelate-forming functional group applies to both the natural and regenerated fibers, or only to the regenerated fiber. The Examiner also stated that since it appears that this modifier was intended to apply to both types of fibers, applicants are advised that an amendment inserting --, said fiber -- after "fiber" in line 3 of claim 28 and line 5 of claim 36 would overcome this portion of the rejection. By this amendment, claims 28 and 36 have been amended to insert -- , said fiber -- after "fiber" in

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lines 3 and 5, respectively, as suggested by the Examiner.

Similarly, the Examiner stated that the recitation of "providing a natural fiber and/or a regenerated fiber into a filter having a functional group" (claim 38, lines 3-4) was indefinite, since it was not clear whether the recited fibers or the filter have the recited functional group. By this amendment, claim 38 has been amended to clarify that the fiber has the recited functional group as suggested by the Examiner.

The Examiner also stated that the term "a residue lacking an amino group selected from ..." (claim 29, lines 2-3) was somewhat indefinite as to the limitation intended. The Examiner also stated that applicants are advised that an amendment reciting that G is a sugar alcohol residue in which an amino group is eliminated from the recited group members, as disclosed in lines 4-9 on page 16 of the specification, would overcome this portion of the rejection. By this amendment, claim 29 has been amended to recite "wherein G is a residue of a chain sugar alcohol lacking an amino group selected from the group consisting of D-glucamine, D-galactamine, D-mannosamine, D-arabitylamine, N-methyl-D-glucamine, N-ethyl-D-glucamine, N-methyl-D-galactamine, N-ethyl-D-galactamine, N-methyl-D-mannosamine and N-ethyl-D-arabitylamine" as suggested by the Examiner. Therefore, it is

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respectfully submitted that this rejection should be withdrawn in view of these amendments.

Also, in view of foregoing claim amendments and remarks, it is respectfully submitted that the application is now in condition for allowance and an action to this effect is respectfully requested.

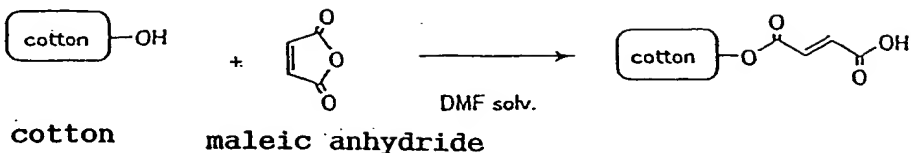
If there are any questions or concerns regarding the amendments or these remarks, the Examiner is requested to telephone the undersigned at the telephone number listed below.

Respectfully submitted,

Date: July 21, 2004

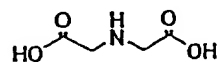

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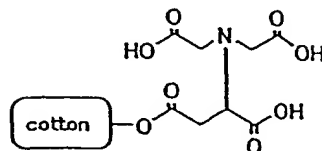


iminodiacetic acid (IDA)

pH=10 used by NaOH
H₂O solv.

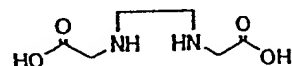


IDA type chelate fiber

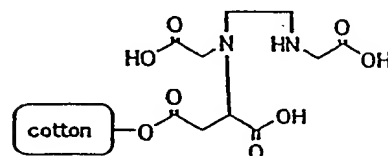


ethylenediaminediacetic acid (EDDA)

pH=10 used by NaOH
H₂O solv.

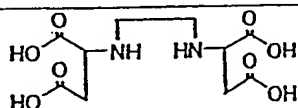


EDDA type chelate fiber

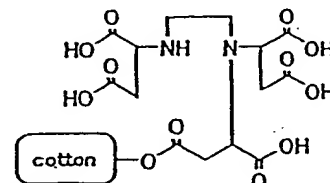


ethylenediaminedisuccinic acid (EDDS)

pH=10 used by NaOH
H₂O solv.

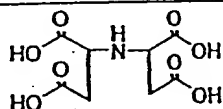


EDDS type chelate fiber

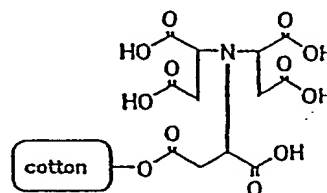


iminodisuccinic acid (IDS)

pH=10 used by NaOH
H₂O solv.

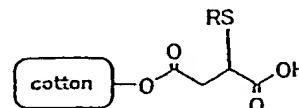


IDS type chelate fiber



H-SR

H₂O solv.



**thioglycolic type- and
thiomalic acid type-chelate fiber**

R= -CH₂COOH or -CH(COOH)
CH₂COOH

thioglycolic acid

thiomalic acid